

Writing & Evaluating Variable Expressions

- Writing Variable expressions is the same as writing numerical expressions except it contains a variable (letter: N, X, Y)

Numerical Expression: 14 more than 2 \rightarrow $2+14$

Variable Expression: 14 more than a number \rightarrow $N+14$

Examples

10 more than a number \rightarrow $10+N$

7 subtracted from a number \rightarrow $N-7$

The quotient of a number and 24 \rightarrow $x \div 24$

OR

$\frac{x}{24}$

The product of 3 and a number \rightarrow

$3 \cdot N$

OR

$3N$

- Evaluate \rightarrow Solve

$$\begin{array}{r} 7a + 37 \\ 7 \cdot 6 + 37 \\ 42 + 37 \\ \hline 79 \end{array}$$

$a = 6 \rightarrow$ ① Substitute the letter for the number

② Use PEMDAS & solve

****PLUG & CHUG!****

Examples

1) $2s - 1$
 $s = 4$

$$\begin{array}{r} 2s - 1 \\ 2 \cdot 4 - 1 \\ \hline 8 - 1 \\ 7 \end{array}$$

2) $8e$
 $e = 9$

$$\begin{array}{r} 8e \\ 8 \cdot 9 \\ \hline 72 \end{array}$$

3) $\frac{k}{5} + 13$
 $k = 15$

$$\begin{array}{r} k \div 5 + 13 \\ 15 \div 5 + 13 \\ \hline 3 + 13 \\ 16 \end{array}$$

4) $2z + z$
 $z = 7$

$$\begin{array}{r} 2z + z \\ 2 \cdot 7 + 7 \\ \hline 14 + 7 \\ \hline 21 \end{array}$$